

JC965 U.S. PTO

01-04-02

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PTO/SB/05 (11-00)  
Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 8071-4 (OPP010597US)

First Inventor Jang-Kun SONG

Title VERTICALLY ALIGNED MODE LIQUID ...

Express Mail Label No. EL922712152US

1002 U.S. PTO  
10/03/05

12/28/01

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 31]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 14]
5. Oath or Declaration [Total Pages ]
  - a. ☐ Newly executed (original or copy)  
Copy from a prior application (37 CFR 1.63 (d))
  - b. ☐ (for continuation/divisional with Box 18 completed)
    - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a. ☐ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☐ paper
  - c. ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement of Power of Attorney (when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 [Copies of IDS Citations]
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☒ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other: .....

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_  
Prior application information. Examiner \_\_\_\_\_ Group Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 19. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label [Insert Customer No. or Attach bar code label here] or ☐ Correspondence address below

Name	F. CHAU & ASSOCIATES, LLP				
Address	1900 Hempstead Turnpike, Suite 501				
City	East Meadow	State	New York	Zip Code	11554
Country	U.S.A	Telephone	(516) 357-0091	Fax	(516) 357-0092

Name (Print/Type)	Frank Chau	Registration No. (Attorney/Agent)	34,136
Signature		Date	12/28/01

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**FEE TRANSMITTAL  
for FY 2001**

Patent fees are subject to annual revision.

**Complete if Known**

Application Number	
Filing Date	December 28, 2001
First Named Inventor	Jang-Kun SONG
Examiner Name	
Group Art Unit	
Attorney Docket No.	8071-4 (OPP010597US)

TOTAL AMOUNT OF PAYMENT (\$ ) 0

**METHOD OF PAYMENT (check one)**

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:
- Deposit Account Number
- Deposit Account Name
- ☐ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17
- ☐ Applicant claims small entity status See 37 CFR 1.27

2. ☐ Payment Enclosed:
- ☐ Check ☐ Credit card ☐ Money Order ☐ Other

**FEE CALCULATION****1. BASIC FILING FEE**

	Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
101	710	201 355	Utility filing fee	\$740.00
106	320	206 160	Design filing fee	
107	490	207 245	Plant filing fee	
108	710	208 355	Reissue filing fee	
114	150	214 75	Provisional filing fee	

SUBTOTAL (1) (\$ ) 740.00

**2. EXTRA CLAIM FEES**

	Total Claims	Extra Claims	Fee from below	Fee Paid
Total Claims	11	-20** = 0	X 18 = \$0	
Independent Claims	3	-3** = 0	X \$84 = \$0	
Multiple Dependent			\$280 = 0	

\*\*for number previously paid, if greater; For Reissues, see below

	Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
103	18	203 9	Claims in excess of 20
102	80	202 40	Independent claims in excess of 3
104	270	204 135	Multiple dependent claim, if not paid
109	80	209 40	** Reissue independent claims over original patent
110	18	210 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ ) 0.00

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**


	Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
105	130	205 65	Surcharge - late filing fee or oath	
127	50	227 25	Surcharge - late provisional filing fee or cover sheet	
139	130	139 130	Non-English specification	
147	2,520	147 2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112 920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
115	110	215 55	Extension for reply within first month	
116	390	216 195	Extension for reply within second month	
117	890	217 445	Extension for reply within third month	
118	1,390	218 695	Extension for reply within fourth month	
128	1,890	228 945	Extension for reply within fifth month	
119	310	219 155	Notice of Appeal	
120	310	220 155	Filing a brief in support of an appeal	
121	270	221 135	Request for oral hearing	
138	1,510	138 1,510	Petition to institute a public use proceeding	
140	110	240 55	Petition to revive - unavoidable	
141	1,240	241 620	Petition to revive - unintentional	
142	1,240	242 620	Utility issue fee (or reissue)	
143	440	243 220	Design issue fee	
144	600	244 300	Plant issue fee	
122	130	122 130	Petitions to the Commissioner	
123	50	123 50	Processing fee under 37 CFR 1.17(q)	
126	240	126 240	Submission of Information Disclosure Stmt	
581	40	581 40	Recording each patent assignment per property (times number of properties)	
146	710	246 355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	710	249 355	For each additional invention to be examined (37 CFR § 1.129(b))	
179	710	279 355	Request for Continued Examination (RCE)	
169	900	169 900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ ) 0.00

**SUBMITTED BY**

Name (Print/Type)	Frank Chau	Registration No. (Attorney/Agent)	34,136	Telephone	(516) 357-0091
Signature		Date	12/28/01		

Complete (if applicable)

PATENT APPLICATION

Atty. Docket No. 8071-4 (OPP010597US)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents  
Washington, D.C. 20231

UTILITY APPLICATION FEE TRANSMITTAL

Sir:

Transmitted herewith for filing is the patent application of

Inventor(s): Jang-Kun SONG, Kyeong-Hyeon KIM, Jae-Jin LYU,  
Seung-Hee LEE, Seung-Beom PARK, Yong-Woo CHOI

For: VERTICALLY ALIGNED MODE LIQUID CRYSTAL DISPLAY  
WITH DIFFERENTIATED B CELL GAP

Enclosed are:

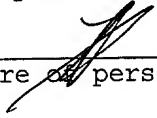
- ☒ 25 page(s) of specification  
☒ 1 page(s) of Abstract  
☒ 5 page(s) of claims  
☒ 14 sheets of drawings ☒ formal ☐ informal  
☐ \_\_\_\_\_ page(s) of Declaration and Power of Attorney  
☐ An Assignment of the invention to:

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date December 28, 2001 in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EL922712152US addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Frank Chau

(Type or print name of person mailing paper)

  
(Signature of person mailing paper)

☐ This application claims the benefit under 35 U.S.C. §119(e) of U.S. Provisional Application(s) No(s):

APPLICATION NO(S):

FILING DATE

\_\_\_/\_\_\_/\_\_\_

\_\_\_/\_\_\_/\_\_\_

\_\_\_/\_\_\_/\_\_\_

\_\_\_/\_\_\_/\_\_\_

☒ Certified copy of application

Country

Appln. No.

Filed

Korea

2001-42123

July 12, 2001

from which priority under Title 35 United States Code, § 119 is claimed

☒ is enclosed.

☐ will follow.

CALCULATION OF UTILITY APPLICATION FEE

For	Number Filed	Number Extra	Rate	Basic Fee \$740.00
Total				
Claims*	11 - 20 = 0		x \$ 18.00	\$
Independent				
Claims	3 - 3 = 0		x \$ 84.00	\$
Multiple	<input type="checkbox"/> yes	Add'l. Fee	\$280.00	\$
Dependent				
Claims	<input type="checkbox"/> no	Add'l. Fee	None	= \$


TOTAL \$740.00

☐ Verified Statement of "Small Entity" Status Under 37 C.F.R. § 1.27. Reduced fees under 37 C.F.R. § 1.9(f) (50% of total) paid herewith \$\_\_\_\_\_.

\*Includes all independent and single dependent claims and all claims referred to in multiple claims. See 37 C.F.R. § 1.75(c).

- [ ] A check in the amount of \$\_\_\_\_\_ is enclosed for recording the attached Assignment.
- [ ] A check in the amount of \$\_\_\_\_\_ to cover the filing fee is attached.
- [ ] Charge fee to Deposit Account No. \_\_\_\_\_. Order No. \_\_\_\_\_. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.
- [X] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and 1.17, at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. \_\_\_\_\_. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. \_\_\_\_\_ therefor. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

Date: 12/28/01

  
\_\_\_\_\_  
SIGNATURE OF ATTORNEY

Frank Chau

Reg. No. 34,136

F. CHAU & ASSOCIATES, LLP  
1900 Hempstead Turnpike  
Suite 501  
East Meadow, New York 11554  
Tel. No. (516) 357-0091  
Fax. (516) 357-0092

FC/pg